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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/763,578	07/28/2001	Ruth F. Eden	HT-109US	9243	
75	90 01/29/2004		EXAMINER		
James M Deimen			NGUYEN, BAO THUY L		
Suite 300 320 North Main	Street		ART UNIT	PAPER NUMBER	
Ann Arbor, MI			1641 7		
			DATE MAILED: 01/29/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/763,578	EDEN, RUTH F.	
Office Action Summary	Examiner	Art Unit	
	Bao-Thuy L. Nguyen	1641	
The MAILING DATE of this communication Period for Reply	appears on the cover she	et with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE	EDI V IC CET TO EVDIDE	2 MONTH(S) EDOM	
THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a lif NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by since the period for reply will, by since	ON. R 1.136(a). In no event, however, no. a reply within the statutory minimum eriod will apply and will expire SIX (6 tatute, cause the application to beco	nay a reply be timely filed of thirty (30) days will be considered timely.) MONTHS from the mailing date of this communic me ABANDONED (35 U.S.C. § 133).	ation.
1) Responsive to communication(s) filed on <u>0</u>	<u> 3 November 2003</u> .		
2a) ☐ This action is FINAL . 2b) ☑ T	This action is non-final.		
3) Since this application is in condition for allocation accordance with the practice und			s is
Disposition of Claims			
4)⊠ Claim(s) <u>1-15</u> is/are pending in the applica	tion.		
4a) Of the above claim(s) is/are with	drawn from consideration	ı .	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-15</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction ar	nd/or election requiremen	t.	
Application Papers			
9)☐ The specification is objected to by the Exan	niner.		
10) ☐ The drawing(s) filed on is/are: a) ☐	accepted or b)☐ objecte	d to by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in ab	eyance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co	·		• •
11) The oath or declaration is objected to by the	e Examiner. Note the atta	ched Office Action or form PTO-152	<u>?</u> .
Priority under 35 U.S.C. §§ 119 and 120			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the priority docum	nents have been received nents have been received	in Application No	
application from the International Bu * See the attached detailed Office action for a 13) Acknowledgment is made of a claim for dom since a specific reference was included in the	reau (PCT Rule 17.2(a)). list of the certified copies testic priority under 35 U.S	not received. S.C. § 119(e) (to a provisional applic	•
37 CFR 1.78.	·		
 a) ☐ The translation of the foreign language 14)☐ Acknowledgment is made of a claim for dom 	•		sific
reference was included in the first sentence of	· ·	• •	
Attachment(s)			
) 🗵 Notice of References Cited (PTO-892)		iew Summary (PTO-413) Paper No(s)	<u>.</u> .
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(e of Informal Patent Application (PTO-152)	

Application/Control Number: 09/763,578

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DETAILED ACTION

1. Applicant's amendment filed on November 3, 2003 has been received. Claims 14 and 15 have been added. Claims 1-15 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- **3.** Claims 1-15 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Shi (US 5,998,184).

Shi discloses a basket bioreactor comprising a cell propagation device for use alone or in combination with any other bioreactor, wherein said device comprises a culture medium vessel and a perforated basket (e.g. enclosure made of a grid material) positioned in the vessel. The screen defines a cell culture zone within the vessel. The basket perforations are sized, e.g., from 50 120 meshes, to provide a substantially free flow of media in the directions indicated by the arrows in FIG. 2. The basket may be made from metal, such as stainless steel, or any synthetic resin suitably resistant to the bioreactor environment. Such resins include certain polyolefins, polycarbonates and the like. The basket may contain a cell supporting material to entrap anchorage independent cells and to immobilize anchorage dependent cells (e.g. antibody material). The basket may have one removable top cover. Alternatively, it may be designed with many covers to provide stacked sub-columns, thereby accommodating the combined use of different supporting materials. Shi teaches that the cell supporting material is any material useful to anchor or otherwise immobilize cells cultured in a bioreactor. Representative supporting materials include fibra-cell disks, Cytodex Microcarriers or porous ceramics, sponge, fibers, porous beads, and peptide-coated beads. See column 1, line 60 through column 2, line 16; column 5, line 38 through column 6, line 24. Shi teaches removal of cell from the

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bioreactor by disconnecting and shaking loose the cultured cells or using cell detachment enzymes. See column 3, lines 39-46.

Response to Arguments

4. Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 5,705,390 US 4,983,517

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao-Thuy L. Nguyen whose telephone number is (571) 272-0824. The examiner can normally be reached on Tuesday and Thursday from 9:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long V. Le can be reached on (703) 305-3399. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

Bao-Thuy L. Nguyen Primary Examiner Art Unit 1641

25 January 2004